UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,437	04/21/2004	Shosuke Endoh	252112US2	5495
22850 7590 02/04/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			DHINGRA, RAKESH KUMAR	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
		1792		
			NOTIFICATION DATE	DELIVERY MODE
			02/04/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/828,437	ENDOH ET AL.	
Examiner	Art Unit	

	RAKESH K. DHINGRA	1792					
The MAILING DATE of this communication appe	ars on the cover sheet with th	correspondence add	ress				
THE REPLY FILED <u>16 January 2009</u> FAILS TO PLACE THIS A	PPLICATION IN CONDITION F	OR ALLOWANCE.					
 The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods: 	replies: (1) an amendment, affida eal (with appeal fee) in compliance	vit, or other evidence, v e with 37 CFR 41.31; o	vhich places the r (3) a Request				
a) The period for reply expires <u>03</u> months from the mailing dat	e of the final rejection.						
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(the content of the co	dvisory Action, or (2) the date set for hter than SIX MONTHS from the mai b). ONLY CHECK BOX (b) WHEN T	ing date of the final rejection	on.				
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b).	ension and the corresponding amou hortened statutory period for reply o	nt of the fee. The appropri iginally set in the final Office	ate extension fee be action; or (2) as				
NOTICE OF APPEAL 2. ☐ The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi	nsion thereof (37 CFR 41.37(e)),	to avoid dismissal of the					
AMENDMENTS							
3. The proposed amendment(s) filed after a final rejection, k (a) They raise new issues that would require further cor (b) They raise the issue of new matter (see NOTE below (c) They are not deemed to place the application in beth appeal; and/or (d) They present additional claims without canceling a control of the present additional claims. NOTE: (See 27 CER 1.116 and 41.23(a))	nsideration and/or search (see Nw); w); er form for appeal by materially	OTE below); reducing or simplifying t					
NOTE: (See 37 CFR 1.116 and 41.33(a)). 4. The amendments are not in compliance with 37 CFR 1.12	21 See attached Notice of Non-C	`omnliant Amendment (PTOL-324)				
4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324). 5. Applicant's reply has overcome the following rejection(s):							
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 		, timely filed amendme	nt canceling the				
7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prove The status of the claim(s) is (or will be) as follows: Claim(s) allowed: None. Claim(s) objected to: None. Claim(s) rejected: 8,13-15,18-21 and 28-31. Claim(s) withdrawn from consideration: 4-7,11 and 22-27.		vill be entered and an e	xplanation of				
AFFIDAVIT OR OTHER EVIDENCE							
 The affidavit or other evidence filed after a final action, bubecause applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 							
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under app	eal and/or appellant fail	s to provide a				
 The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER 	n of the status of the claims after	entry is below or attach	ed.				
11. The request for reconsideration has been considered but see continuation sheet.			ce because:				
12. ☐ Note the attached Information <i>Disclosure Statement</i>(s). (13. ☐ Other:	PTO/SB/08) Paper No(s)						
/Rakesh K Dhingra/ Examiner, Art Unit 1792	/Karla Moore/ Primary Examiner, Art	Unit 1792					

Response to applicant's arguments:

Applicant's argument that Moriya does not supply a cooling gas and non-zero voltage when the substrate is transferred into and out of the chamber, examiner responds that Koshiishi teach that "as the wafer W is exposed to the plasma, its temperature increases. The refrigerant of the temperature-controlled refrigerant flow channel 18 cools the holder main body 11, to cool the wafer W on the holder main body 11. In addition, a cooling gas is sprayed to the wafer from the lower surface to cool it efficiently, thereby controlling the temperature of the wafer W. Meanwhile, the focus ring 12 is also exposed to the plasma, so its temperature increases. In the same manner as the wafer W, the focus ring 12 is also efficiently cooled by the refrigerant of the refrigerant flow channel 18 and the cooling gas of the gas supply path 17. and is maintained at substantially the same temperature level as that of the wafer W. Substantially no temperature difference occurs between the focus ring 12 and wafer W, or is very small even if it does. Koshiishi further teach that the focus ring 12 is strongly attracted to the holder main body 11 by the Johnson-Rahbek force generated by the second dielectric film 14b, and is efficiently cooled by the refrigerant of the refrigerant flow channel 18 and the cooling gas of the gas supply path 17, so it is maintained to have no temperature difference from the wafer W. Koshiishii also teach that the electrostatic attracting force of the focus ring for the holder main body is increased with a simple structure, so that the cooling effect is increased. A change in plasma processing characteristics over time in the vicinity of the focus ring can be eliminated, and the entire surface of the object to be processed can be processed uniformly. Floating of the focus ring during transfer of the wafer W can be prevented, so a transfer error can be prevented, that is non-zero voltage is applied during wafer transfer (para. 0043-45, 0060). Further, Moriya is cited for its teaching of a controller that controls overall functioning of the plasma processing including control of cooling through helium gas. It would be obvious to program the controller of Moriya for controlling the pressure of heat tarnsfer gas for cooling and the chucking voltage, including control of these parameters during conveyance of the object as per teaching of Koshiishi to maiintain maintaining attraction of focus ring and the tempertaure of the focus ring during conveyance of the wafer (examiner notes that claim 8 recites the controller controls the ----- voltage and the pressure --- from said chamber, which the controller art does as a part of overall control of process, inview of taechings of Koshiishi). Thus, Koshiishi in view of Kanno, Howald and Moriya teach all limitations of claim 8 as indicated above and the rejection is maintained. Further, in view of this rejection of balance claims 13-15, 18-21 and 28-31 is also maintained.